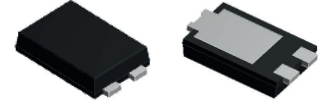


Features

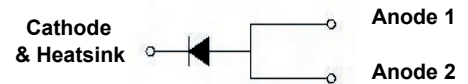
- Excellent high temperature stability
- Low forward voltage
- Low power loss/high efficiency
- High forward surge capability
- Ideal for automated placement



TO-277

Mechanical Data

- Case: TO-277
 Molding compound meets UL94V-0 flammability rating
 Moisture sensitivity level: level 1, per J-STD-020
- Terminal: Matte tin plated leads, solderable per JESD22-B102
 Meet JESD 201 class 2 whisker test



Schematic Diagram

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbols	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	100	A
Maximum Instantaneous Forward Voltage ¹	V _F	I _F =3A, T _J =25°C	0.75
		I _F =5A, T _J =25°C	0.80
Maximum Instantaneous Reverse Current at Rated Reverse Voltage	I _R	T _J =25°C	10 μA
		T _J =125°C	2 mA
Typical Thermal Resistance	R _{θJL}	50	°C/W
Operating Temperature Range	T _J	-55 to +175	°C
Storage Temperature Range	T _{STG}	-55 to +175	°C

Note:

1. Pulse test with pulse width=300μs, 1% duty cycle.

Ratings and Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

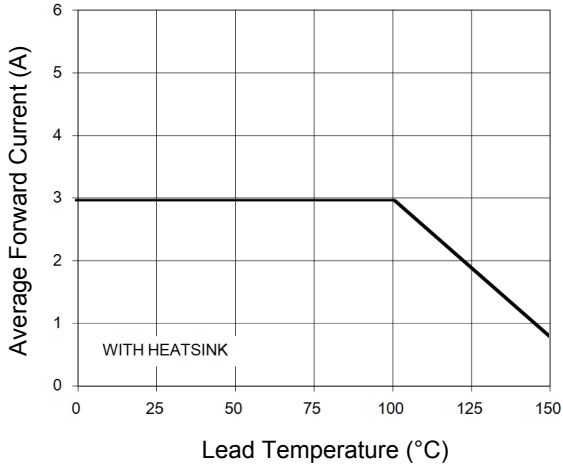


Figure 1. Forward Current Derating Curve

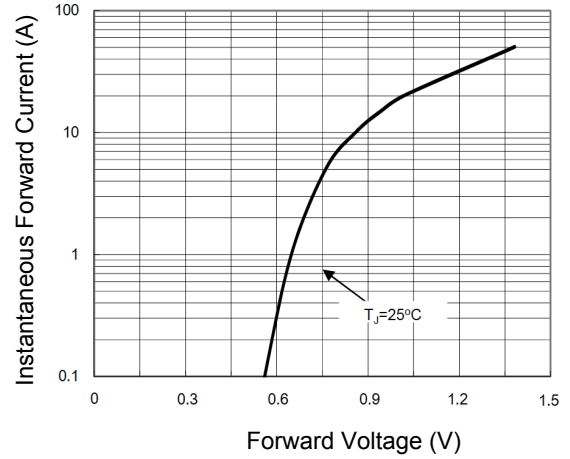


Figure 2. Typical Forward Characteristics

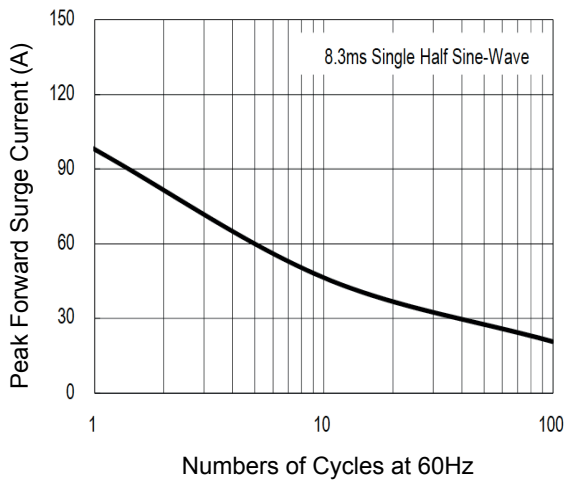


Figure 3. Maximum Non-Repetitive Forward Surge Current

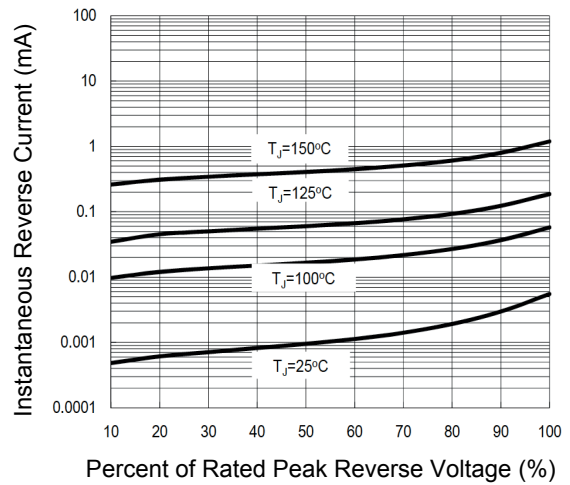
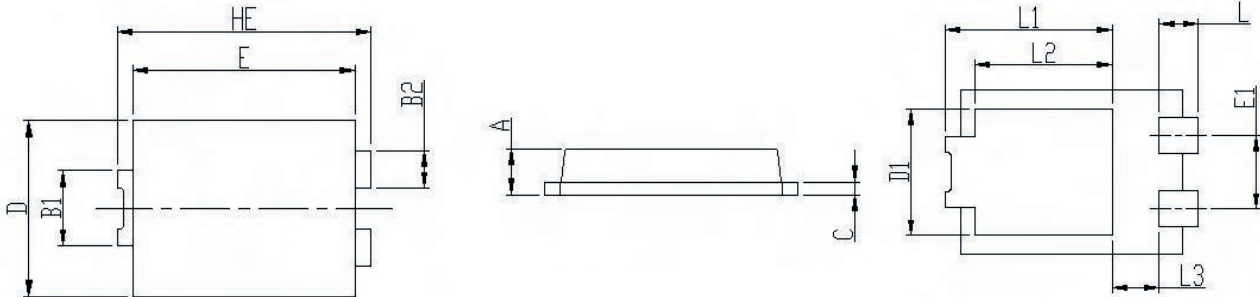


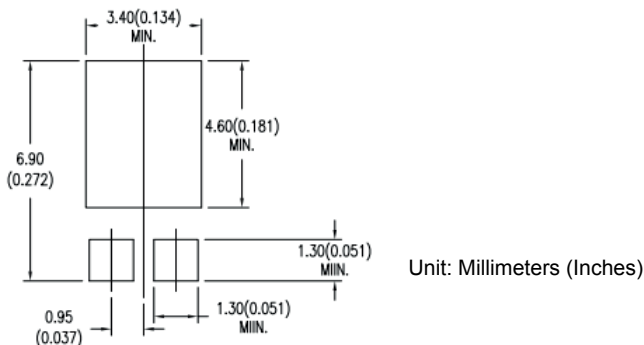
Figure 4. Typical Reverse Characteristics

Package Outline Dimensions (TO-277)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
HE	6.400	6.600	0.252	0.260
E	5.600	5.800	0.220	0.228
D	4.100	4.300	0.161	0.169
B1	1.700	1.900	0.067	0.075
B2	0.800	1.000	0.031	0.039
A	1.050	1.200	0.041	0.047
C	0.250	0.400	0.010	0.016
L	0.850	1.100	0.033	0.043
L1	4.200	4.400	0.165	0.173
L2	3.520 NOM		0.139 NOM	
L3	1.100	1.400	0.043	0.055
D1	3.000	3.300	0.118	0.130
E1	1.860 NOM		0.073 NOM	

Recommended Pad Layout



Order Information

Device	Package	Marking	Packaging	SPQ
GSK3PC10	TO-277	3PC10	Tape & Reel	5,000 Pcs / Reel

For more information, please contact us at: inquiry@goodarksemi.com